

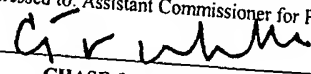
PATENT
Docket No. 416272000200

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CHASE J. TROMBELLA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Bob. B. BUCHANAN et al.

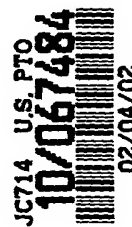
Serial No.: To Be Assigned

Filing Date: Herewith

For: RAGWEED ALLERGENS

Examiner: To Be Assigned

Group Art Unit: To Be Assigned



**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97**

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted:

- ☒ **With the application; accordingly, no fee or separate requirements are required.**
- ☐ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of * is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of * is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to

charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 416272000200. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: February 4, 2002

Respectfully submitted,

By: Michael R. Ward
Michael R. Ward
Registration No. 38,651

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 416272000200	Application Number To Be Assigned
	Applicant Bob B. BUCHANAN, et al.	
	Filing Date Herewith	Group Art Unit To Be Assigned
	Mailing Date February 4, 2002	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	1. ✓	Astwood, James D. (1996) "Stability of food allergens to digestion in vitro" <i>Nature Biotechnology</i> 14: 1269-1273.
	2. ✓	Buchanan, B. B. et al. (1997) "Thioredoxin-linked mitigation of allergenic responses to wheat" <i>Proc. Natl. Acad. Sci. USA</i> 94: 5372-5377.
	3. ✓	Coca, Arthur F. (1922) "Studies in Specific Hypersensitiveness: V. The Preparation of Fluid Extracts and Solutions for Use in the Diagnosis and Treatment of the Allergies with Notes on the Collection of Pollens" <i>J. Immunol.</i> 7: 163-178.
	4. ✓	Coca, Arthur F. and Edgar L. Milford (1925) "Studies in Specific Hypersensitiveness: XVII. The Preparation of Fluid Extracts and Solutions for Use in the Diagnosis and Treatment of Atopic Conditions" <i>J. Immunol</i> 10: 555-566.
	5. ✓	Ermel, Richard W. et al. (1997) "The Atopic Dog: A Model for Food Allergy" <i>Laboratory Animal Science</i> 47 (1): 40-49.
	6. ✓	Gill, Stanley C. and Peter H. von Hippel (1989) "Calculation of Protein Extinction Coefficients from Amino Acid Sequence Data" <i>Analytical Biochemistry</i> 182: 319-326.
	7. ✓	Howlett, B. J. et al. (1973) "Pollen-Wall Proteins: Release of the Allergen Antigen E From Intine and Exine Sites in Pollen Grains of Ragweed and <i>Cosmos</i> " <i>J. Cell Sci.</i> 13: 603-619.
	8. ✓	Huby, Russell D. et al. (2000) "Forum: Why Are Some Proteins Allergens?" <i>Toxicological Sciences</i> 55, 235-246.
	9. ✓	Hussain, Rubia et al. (1981) "Rapidly released allergens from short ragweed pollen" <i>J. Allergy Clin. Immunol.</i> 67 (3): 217-222.
	10. ✓	Ishizaka, Kimishige et al. (1974) "Immunogenic Properties of Modified Antigen E: I" <i>Journal of Immunology</i> 113 (1): 70-77.

EXAMINER:

DATE CONSIDERED:

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Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 416272000200

Application Number To Be Assigned

Applicant

Bob B. BUCHANAN, et al.

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Group Art Unit To Be Assigned

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| 11. | ✓ | Ishizaka, Kimishige et al. (1975) "Immunogenic Properties of Modified Antigen E: II" <i>Journal of Immunology</i> 114 (1): 110-115. |
| 12. | ✓ | King, T. P. (1972) "Separation of Proteins by Ammonium Sulfate Gradient Solubilization" <i>Biochemistry</i> 11: 367-371. |
| 13. | ✓ | King, Te Piao et al. (1974) "Chemical Modifications of the Major Allergen of Ragweed Pollen, Antigen E" <i>Immunochemistry</i> 11: 83-92. |
| 14. | ✓ | King, Te Piao et al. (1975) "Immunochemical Studies of Dextran Coupled Ragweed Pollen Allergen, Antigen E" <i>Archives of Biochemistry and Biophysics</i> 169: 464-473. |
| 15. | ✓ | Lehrer, Samuel B. et al. (1996) "Why are Some Proteins Allergenic? Implications for Biotechnology" <i>Critical Reviews in Food Science and Nutrition</i> 36: 553-564. |
| 16. | ✓ | Marsh, David G. et al. (1981) "Rapidly released allergens from short ragweed pollen" <i>J. Allergy Clin. Immunol.</i> 67 (3): 206-216. |
| 17. | ✓ | Metcalf, Dean D. et al. (1996) "Assessment of the Allergenic Potential of Foods Derived from Genetically Engineered Crop Plants" <i>Critical Reviews in Food Science and Nutrition</i> 36(S): S165-S186. |
| 18. | ✓ | Teuber, Suzanne S. et al. (1999) "Identification and cloning of a complementary DNA encoding a vicilin-like proprotein, Jug r 2, from English walnut kernel (<i>Juglans regia</i>), a major food allergen" <i>J. Allergy Clin Immunol</i> 104: 1311-1322. |
| 19. | ✓ | del Val, Gregorio et al. (1999) "Thioredoxin treatment increases digestibility and lowers allergenicity of milk" <i>J. Allergy Clin. Immunol.</i> 103 (4): 690-697. |
| 20. | ✓ | del Val, Gregorio et al. (2000) Abstract: "Reevaluation of the Allergenicity of Proteins from the Lipid-soluble Fraction of Ragweed Pollen" <i>J. Allergy Clin. Immunol.</i> 105: 980. |

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